

HAER
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HISTORIC AMERICAN ENGINEERING RECORD

INDEX TO PHOTOGRAPHS

NEW YORK , NEW HAVEN , AND HARTFORD RAILROAD ,
BRIDGE TYPE CIRCUIT BREAKERS
(Electrification System, Bridge-type Circuit Breakers)

HAER No. CT-142-C

Long Island Sound shoreline between Stamford and New Haven.

Anchor Bridge #310: Spanning New York, New Haven & Hartford Railroad tracks 820 feet east of Cos Cob Station, Greenwich, Fairfield County, Connecticut.

Anchor Bridge #374: Spanning New York, New Haven & Hartford Railroad tracks at Canal Street, Stamford, Fairfield County, Connecticut.

Anchor Bridge #465: Spanning New York, New Haven & Hartford Railroad tracks 1000 feet east of Darien Station, Darien, Fairfield County, Connecticut.

Photographer: Robert C. Stewart, May 1994
Historical Technologies

CT-142-C-1 VIEW EAST TOWARD COS COB ANCHOR BRIDGE #310 OF CIRCUIT BREAKER INSTALLATION ON CROSS BEAM OF BRIDGE. ABANDONED COS COB POWER STATION IS TO THE SOUTH OF THIS BRIDGE.

CT-142-C-2 VIEW EAST TOWARD DARIEN ANCHOR BRIDGE #465 OF CIRCUIT BREAKER INSTALLATION ON CROSS BEAM OF BRIDGE.

CT-142-C-3 VIEW EAST TOWARD STAMFORD ANCHOR BRIDGE #374 OF CIRCUIT BREAKER INSTALLATION ON CROSS BEAM OF BRIDGE.

CT-142-C-4 VIEW OF LOWER SECTION OF A TYPICAL BRIDGE-TYPE CIRCUIT BREAKER. THE OIL TANK HAS BEEN DROPPED TO SHOW STATIONARY "DE-ION GRID" CONTACTS AT LEFT AND RIGHT OF CENTER. MOVING CONTACTS ARE SHOWN IN THE OPEN POSITION BELOW "DE-ION GRID" CONTACTS. THEY ARE PULLED UPWARD AND INTO THE STATIONARY CONTACTS BY THE ACTUATING SHAFT AND LIFT ROD ASSEMBLY AT THE CENTER OF THE PHOTOGRAPH.

CT-142-C-5 VIEW OF UPPER SECTION OF A TYPICAL BRIDGE-TYPE CIRCUIT BREAKER WITH COVER DROPPED TO REVEAL OPERATING MECHANISM. CLOSING COILS AT UPPER CENTER MOVE MAGNET YOKE. MOTION IS TRANSMITTED THROUGH A MECHANICAL LINKAGE TO THE ACTUATING SHAFT TO CLOSE THE CONTACTS LOCATED IN THE OIL TANK BELOW.

Note: Also see HAER No. CT-142-A for further information, particularly photographs HAER No. CT-142-A-48, HAER No. CT-142-A-64 and HAER No. CT-142-A-65.